WHAT IS CLAIMED IS:

1. A mine transportation management system, comprising:

a plurality of self-propelled vehicles each having communication means and being identifiable;

a plurality of vessels each having communication means and being identifiable;

at least one loading machine having communication means and loading an object to be loaded into at least one vessel out of said plurality of vessels;

a processing facility; and

a management center having communication means,

wherein each of said plurality of self-propelled vehicles is connectable to and separable from each of said plurality of vessels; and

wherein said management center selects a vessel to be transported and selects a self-propelled vehicle for transporting said selected vessel from said plurality of self-propelled vehicles and said plurality of vessels, based on a transportation demand signal from said processing facility, and transmits a transportation command signal to said selected self-propelled vehicle, whereby said selected self-propelled vehicle connects to said selected vessel and travels to said processing facility.

2. The mine transportation management system according

to Claim 1,

wherein said management center transmits a travel command signal to said selected self-propelled vehicle after said selected self-propelled vehicle discharges the loaded object to said processing facility, and makes said selected self-propelled vehicle travel to a designated position and separate said selected vessel therefrom.

3. A mine transportation management method,

wherein a management center having communication means receives signals from a plurality of self-propelled vehicles each having communication means and being identifiable, signals from a plurality of vessels each having communication means, being connectable to and separable from said plurality of self-propelled vehicles and being identifiable, and a signal from at least one loading machine having communication means and loading an object to be loaded into at least one vessel out of said plurality of vessels;

wherein a vessel to be transported is selected from said plurality of vessels based on a transportation demand signal from a processing facility to which the loaded object is discharged;

wherein a self-propelled vehicle for transporting said selected vessel is selected from said plurality of self-propelled vehicles; and

wherein said selected self-propelled vehicle connects to said selected vessel and travels to said processing facility by a transportation command signal being transmitted to said selected self-propelled vehicle from said management center.